5

(A)	0.8% Nutrient Broth (Difco)	
	1.5% Agar (Difco)	
(B)	0.8% Nutrient Broth (Difco)	
	0.2% KCl	
	0.9% S-60	
Tryp	ticase Soy Agar	

2.75% Trypticase Soy Broth (BBL) (A)

1.5% Agar (Difco) 2.75% Trypticase Soy Broth (BBL) (B) 0.2% KCi 0.9% S-60

Potato Dexrose Agar

2.4% Potato Dextrose Broth (Difco) 1.5% Agar 2.4% Potato Dextrose Broth (Difco)

0.2% KCI 0.9% S-60

YM Agar

2.1% YM Broth (Difco) (A) 1.5% Agar (Difco) 2.1% YM Broth (B) 0.2% KCl

0.9% S-60

Brain Heart Infusion Agar 3.7% BHI Broth (Difco)

1.5% Agar

3.7% BHI Broth (Difco) 0.2% KCI 0.9% S-60

Burk's Agar (A) (B) 0.0584% K2HPO4 0.0225% KH2PO4 0.0174% K2SO4 0.0164% MgCl2 . 6H2O 0.0064% CaCl2 . 2H2O Same as (A) 0.0005% FeCl₃ . 6H₂O 0.00002% Na₂MoO₄ . 2H₂O 0.0116% NaCl 1.0% Glucose 1.5% Agar (Difco) 0.2% KCI 0.9% S-60

Deionized water was used for all media. The ingredients were combined (except for Burk's) and autoclaved for 15-20 minutes at 121° C. and 15 psi, cooled to 55° C., and poured into sterile petri dishes. The ingredients for Burk's were combined, except for the glucose, which was autoclaved separately, and added to the medium after autoclaving. After these nutrient plates had solidified and allowed to incubate at ambient temperature for 45 24 hours to check for sterility, they were streaked with the following fourteen cultures:

Agromyces ramosus ATCC 25173

Arthrobacter globiformis ATCC 8010 Aureobasidium pullulans NRRL YB-3861

Azotobacter indicus var myxogenes strain S-7 ATCC 21423

Azotobacter vinelandii ATCC 9047 Beijerinckia lacticogenes ATCC 19361 Erwinia cartovora ATCC 8061 Escherichia coli strain EG-47

Klebsiella pneumoniae strain S-53

Nocardia salmonicolor ATCC 21243 S-60

Streptococcus faecalis

Trichoderma longbrachiatum ATCC 13631

Zoogloea ramigera ATCC 25935

The plates were incubated at 30° C. for 3-5 days and then examined for growth. Good growth was observed for all strains on media made with S-60 and little difference in colonial morphology was noted between media 65 made with S-60 instead of agar. These results indicate that S-60 is an excellent replacement for agar in microbiological media. The gel point for all media containing

S-60, except BHI medium and TSA, was 42° C. The gel point for BHI agar and TSA was 52° C. Agar typically gels at 42°-44° C.

EXAMPLE 7

Preparation of Molded Scented Gels Using Deacetylated S-60

ccharide S-60
n Carbonate
l p-hydroxybenzoate
ragrance
panol
ne glycol
5.

The native polysaccharide S-60 is blended with sodium carbonate and preservative and dissolved in water at 70° C. The solution is then further heated to 90° C. and held at that temperature for ten minutes to deacetylate the polysaccharide. After cooling to 60° C., the fragrance dispersed in the solvents is added and the mixture placed in the usual air freshener plastic molds. When the mixture cools to 38° C., gelation occurred and a firm, self-supporting gel with good fragrance releasing properties results.

(B) A dry deacetylated polysaccharide S-60 is prepared from the fermentate beer by adjusting the pH to 10.0 with dilute sodium hydroxide and heating to 90° C. for fifteen minutes. The solution is neutralized to pH 7 with dilute hydrochloric acid, precipitated in two volumes of ispopropanol, dried, and milled. A solid air freshener gel is prepared from the deacetylated product in the following manner: 3.0 grams of the deacetylated polysaccharide S-60 are blended with 1.5 grams potassium chloride and 0.15 grams methyl p-hydroxybenzoate preservative and added to 177 ml water. The solution is heated to 90° C. to dissolve; cooled to 60° C., and a blend of 6.0 grams peppermint oil fragrance, 8.0 grams isopropanol, and 4.0 grams ethylene glycol is added. The solution is placed in plastic molds and cooled to ambient temperature. A strong, brittle gel with heavy mint fragrance forms. The gel can be unmolded easily and retains its shape without sagging.

EXAMPLE 8

Comparison of Native, Deacetylated, and Clarified and Deacetylated S-60

Three samples of S-60 (native, deacetylaed, and deacetylated and clarified) are analyzed. The following data are obtained.

55 _		Native	Deacet- ylated	Deacet- ylated and clarified
60	Uronic acid (%)	11	13	22
	Acetyl (%)	3.0	0	0
	Neutral sugar			
	(% mol. ratio)			
	Glucose	(40)	(40)	(40)
	Rhamnose	(60)	(60)	(60)
	Proteins	10	17	2
	Ash	7.0	8.0	9.5

What is claimed is:

1. Deacetylated heteropolysaccharide S-60, which comprises (a) about 50% (wt./wt.) insoluble material of